

ICAR Sponsored Short Course on
Molecular Immunology of
Fish and Shellfish
15-24 March 2017

Organised by
ICAR-Central Institute of Fisheries Education
Mumbai-400061

Application Form

Name of the candidate: _____

Designation: _____

Present employer: _____

Qualification: _____

Age: _____ (Yrs) Gender: Male/Female

Address for correspondence: _____

Email: _____

Mobile No: _____

Fax: _____

Teaching/Research/Professional experience
during last 5 years: _____

Mention if you have participated in any
summer/winter school/short course
etc. during the previous years: _____

Signature of the applicant with date

Recommendation of the institute

Signature & designation of the sponsoring
authority

Programme Director
Dr. Gopal Krishna
Director & Vice Chancellor

Course Director
Dr K. V. Rajendran
Principal Scientist & Head,
Aquatic Environment &
Health Management Division

Course Coordinator
Dr. Megha Bedekar
Senior Scientist

All future correspondences may
kindly be directed to the address below

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Course Director
Aquatic Environment & Health Management Division
ICAR-Central Institute of Fisheries Education
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on
Molecular Immunology of
Fish and Shellfish
15-24 March 2017



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ICAR-Central Institute of Fisheries Education
(Deemed University, ICAR)
Off Yari Road, Panch Marg
Versova
Mumbai-400061

Preamble of the training course

Though innate and adaptive immunity constitute a combinational system, increasing focus on innate immunity has enriched research on immune defense. Being lower vertebrates and invertebrates, innate immune system plays a crucial role in fish and shellfish. Over the last several years, research in this area has revealed a wealth of receptors and signalling pathways and provided greater insights into defense mechanisms. This is especially true with aquatic organisms having aquaculture potential. Understanding the molecular basis of immune responses against invading pathogens provides new insights into the host-pathogen interactions and thereby helps in developing strategies for the effective management of infectious diseases in aquaculture. Against this background, the major objective of the short course is to impart hands-on training to young faculty and scientists in the area of molecular immunology of fish and shellfish and provide better insights into the immune mechanisms of farmed fish and shellfish.

Course content

- Overview on defence mechanism in fish and shrimp
- New insights into the innate immune mechanisms in crustaceans
- Pathogen recognition receptors
- Host response to pathogen challenge using *in vivo* and *in vitro* models
- New generation tools for studying host pathogen interaction
- Bioinformatics tools related to molecular immunology
- Molecular approaches for elucidating immune response pathways
- Gut and mucosal immunity

Eligibility

Assistant Professor/Scientist or equivalent and above from NARS including SAUs, Deemed University, CAUs, KVKs and other agriculture and allied science faculties of other Universities can apply. To encourage the underpinning of agricultural sciences within basic sciences and to address both fundamental and applied research problems, a few participants from the basic sciences would also be selected. A total of 25 participants will be accommodated in this course.

How to apply?

Interested participants must apply online using CBP portal at www.iasri.res.in/cbp. Participant has to create an account on the CBP site and then using the login ID, enter into the system to apply online. After filling the application, a printout of the application form needs to be taken for due approval of the competent authority of the candidate's organization. The same needs to be scanned after approval and must be uploaded using CBP portal or it could be sent by post/email to the Course Director. In case of any difficulties in applying through CBP portal, the participants may send the filled - in proper channel copy to the Course Director to the given address. **Application must reach the Course Director on or before 25 February, 2017.**

Travel and accommodation

The participants will be paid for the journey, to and fro, restricted to AC-II-tier train fare or bus. TA will be paid from the place of duty to the Short Course location and back by the shortest route. Facilities for boarding and lodging will be made available for the participants only free of cost at CIFE.

About the Institute

ICAR-Central Institute of Fisheries Education (CIFE), in over 50 years of existence, has emerged as a centre of excellence in higher education in fisheries and allied disciplines. The Institute was established on 6th June 1961, under the Ministry of Agriculture, Govt. of India with assistance from FAO/UNDP. It came under the administrative control of Indian Council of Agricultural Research (ICAR) in 1979. Considering the wide mandate involving education, research and extension and recognizing the pivotal role played by CIFE in human resources development in fisheries, the institute was conferred the status of Deemed-to-be-University in 1989. The institute with its core strength in quality teaching, research and training has become a brand name in fisheries higher education.

ICAR-CIFE is now placed in a new campus with state-of-the-art facilities and located about 8 km from the domestic and international airports and 20 km from Dadar railway station, a major rail terminus in Mumbai.